INDUSTRIAL HEATING EQUIPMENT DATASHEET

Electric Pipeline Heater

Custom electric duct-style heater for forced-air circulation and compatible process-gas systems requiring controlled temperature rise.

Reference range	Heating medium	Customization
6-600 kW source-sheet reference	Air / compatible process gas	Power, temperature, material, flange, controls and layout

Reference-data notice: The ambient-to-800 C and +/-1 C values are source-sheet references. They are not universal guarantees. Confirm airflow, gas composition, inlet and outlet temperature, pressure, material, sensor location and control method for the selected duty.

Applications and configuration

Typical applications
- Forced-air circulation heating
- Drying and curing systems
- Process-air temperature control
- Heat-consuming equipment
- Oven and duct retrofits
- Custom industrial gas heating after compatibility review

Configurable items
- Power and voltage
- Airflow / gas mass flow
- Inlet and outlet temperature
- Shell and element material
- Duct / flange size and orientation
- Sensors, controls and protection

Engineering notes

- Air enters the inlet, passes guide plates and electric heating elements, and leaves through the outlet to the heat-consuming equipment.
- Power must be calculated from mass flow, specific heat, required temperature rise, system efficiency and heat loss.
- Low airflow can overheat elements. The final control design should consider airflow proof, staged heating, over-temperature protection and shutdown logic.
- Disclose corrosive, dusty, humid, combustible or hazardous gases so material, sealing and compliance requirements can be reviewed.

Selection reference

Use this table to define the duty. A model should not be selected from power or temperature alone.

Selection item	Reference / input	Why it matters
Heating power	6-600 kW reference range	Must be calculated from mass flow, temperature rise, heat capacity, efficiency and heat loss.
Temperature range	Ambient to 800 C reference	Element, shell, insulation and control design depend on the selected duty.
Control accuracy	+/-1 C source-sheet reference	Requires confirmation of sensor position, airflow stability, controls and operating conditions.
Heating medium	Forced air / compatible process gas	Gas composition, moisture, dust, corrosion and hazardous-area conditions must be disclosed.
Structure	Duct-style cylindrical body	Inlet, outlet, flange, support and wiring position should match the installation drawing.
Material	Stainless steel or carbon steel option	Select by temperature, corrosion, process cleanliness and budget.
Control	Temperature feedback and staged control	Final sensors, interlocks, over-temperature protection and cabinet scope are order-specific.

Main structure reference

Component names are translated from the current product structure diagram.

No.	Component	Function
1	Outlet	Hot air outlet connection
2	Insulation	Reduces shell heat loss and supports personnel protection
3	Cylinder body	Main heater shell
4	Guide plate / baffle	Guides airflow through the heating zone
5	Heating element	Electric heating component
6	Inlet	Air inlet connection
7	Drain outlet	Drainage or discharge point where applicable
8	Saddle support	Supports installation
9	Wiring port	Electrical cable entry
10	Junction box	Electrical connection enclosure
11	Temperature measurement	Internal sensing point

Selection, evidence and order confirmation

Data needed for engineering selection

1. Air volume or gas mass flow
2. Inlet and required outlet temperature
3. Working pressure and allowable pressure drop
4. Gas composition, moisture, dust and corrosion data
5. Voltage, duct or flange size, and installation drawing
6. Material, control accuracy, interlock and destination requirements

Commercial confirmation

MOQ, lead time, warranty, commissioning, spare parts, certification, inspection documents and destination-market compliance are order-specific. Confirm them in the written quotation or contract for the selected model.

How to use this datasheet

This document helps buyers prepare a technical inquiry and compare a reference equipment range. It is not a type-test report, certificate, final design drawing or universal performance guarantee. The selected model, duty, material, controls, utility conditions and applicable documents must be reconciled with the written quotation and approved drawings before production.

Recommended evidence to request

- Model-specific quotation and technical specification.
- Approved equipment and connection drawings.
- Material, component-brand and control-list confirmation where relevant.
- Factory inspection or test records agreed for the order.
- Certificates or compliance documents applicable to the selected model and destination market.

Reference-data notice: Canonical product page: https://www.yigao-heater.com/products/pipeline-heater/
Contact: imanei.tomy@gmail.com | +86 18105104455 | Yancheng, Jiangsu, China
Send drawings and operating conditions for an engineering review.